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#### **FACSIMILE TRANSMITTAL SHEET**

DATE:

15 November 2004

TO: Examiner Jeffrey Pwu Tech Center 3628

FAX NO:

703-872-9306

FROM: Vincent M. DeLuca

RE:

Serial No. 09/480,991 Filed: January 11, 2000 Inventor: David C. CUSHING

Our Ref: 2566-105

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Number of Pages Including This Transmittal Sheet: 21

MESSAGE, IF ANY:

Brief in support of Appeal filed herewith.

		Complete if Known	
	Application Number	09/480,991	
FEE TRANSMITTAL	Filing Date	January 11, 2000	
for FY 2005 (Small Entity)	First Named Inventor	David C. CUSHING	
(Sinan Ziniy)	Examiner Name	J. C. Pwu	
	Group Art Unit	3628	
Total Amount of Payment (\$) 170.0	O Attorney Docket Number	2566-105	

	Group Art Unit 3628				
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SUBMITTED BY		Complete (if applicable)			
NAME AND REG. NUMBER Vincent M DeLuca, Reg. No. 32,408					
SIGNATURE Vincent M Delu	DATE November 15, 2004	DEPOSIT 02-2135			

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2566-105

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re	Application of	) BEFORE THE BOARD OF PATENT ) APPEALS AND INTERFERENCES
David	d C. CUSHING	)
Seria	l No. 09/480,991	) Appeal No.: )
- ·		) Examiner: Jeffrey C. Pwu
Filed: January 11, 2000		) Group Art Unit: 3628
For:	AUTOMATED BATCH AUCTION	IS)
	IN CONJUNCTION WITH	)
	CONTINUOUS FINANCIAL	)
	MARKETS	)

### **BRIEF ON APPEAL**

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This is an appeal from the final rejection of claims 1-31 of the above-identified application, which claims were finally rejected in the Office action dated March 12, 2004. A Notice of Appeal was timely filed on September 13, 2004.

#### **REAL PARTY IN INTEREST**

The real party in interest in this case is ITG Software, Inc. of Santa Monica, California.

# RELATED APPEALS AND INTERFERENCES

There are no other appeals or interferences which will directly affect or be directly affected by or have a bearing on the Board's decision in the present appeal.

## STATUS OF THE CLAIMS

Claims 1-31 are pending in the application and stand finally rejected. Claims 1, 10, 20, 30 and 31 constitute the independent claims on appeal. This appeal is directed to claims 1-31.

## STATUS OF AMENDMENTS

A proposed amendment subsequent to the outstanding final Office action was filed on August 12, 2004, seeking to amend claim 20 to eliminate a typographical error. While the Advisory action dated September 23, 2004 failed to indicate whether or not this proposed amendment would be entered upon appeal, it is inferred that the amendment will be entered as it merely corrects a typographical error.

# **SUMMARY OF THE CLAIMED SUBJECT MATTER**

Independent claim 1 is directed to a method for conducting a financial batch auction, wherein during an order acceptance period orders are received from a plurality of participants representing a desire to execute a trade of a certain security instrument, information regarding orders is continuously transmitted to the participants as it is received

during the order acceptance period, participants are allowed to modify previously submitted orders during the acceptance period only if the modification meets a predetermined set of conditions, an optimal price is discovered after the close of the acceptance period at which a maximum number of shares will be executed based on all orders received during the order acceptance period, and a trade of the maximum number of shares is then executed. See Fig. 2, steps 101-105 and Fig. 3, steps 200-214; page 17, line 10 to page 20, line 30.

Independent claim 10 is directed to a method of performing a batch auction of a security, wherein an order book is compiled by entering orders from participants received during an order acceptance period, modifying or cancelling orders within the order book in response to requests from participants received during the acceptance period based on information provided to the participants, an optimal price is discovered after the close of the acceptance period at which a maximum number of shares will be executed based on all orders received during the order acceptance period, and a trade of the maximum number of shares is then executed. See Fig. 2, steps 101-105 and Fig. 3, steps 200-214; page 17, line 10 to page 20, line 30, and Fig. 4.

Independent claim 20 is directed to a computerized system for performing a batch auction of a security, including a computerized network having at least two computers in communication with each other (Figs. 4 and 5 "qualified participants" and "order book"), an order receiving program running on one or more of the computers (page 10, line 26 - page 11, line 22), an order book database located on one or more of the computers (<u>id.</u>); a price discovery program running on one or more of the computers, a batch auction

execution program running on one or more of the computers, and a notification program running on one or more of the computers (Figs. 4 and 5).

Independent claim 30 is directed to a method for conducting a security batch auction cycle, which is similar to the subject matter of claim 1, and wherein late requests to enter auction orders and to modify entered orders are accepted if such late requests meet first or second sets of criteria (page 18, Il. 1-24).

Independent claim 31 is directed to a method of performing an intermediated batch auction of a security, which is similar to the subject matter of claim 1, but wherein order information is provided to an intermediary during the order acceptance period, and the intermediary may place orders identifying a desire to trade an excess number of shares based on the information (see Fig. 5 and p. 29, Il. 7-26).

# GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

This appeal presents the following issues for decision by the Board:

- 1) Whether claims 1-31 are unpatentable under 35 U.S.C. § 101as being directed to non-statutory subject matter, and are properly rejected on that basis; and
- 2) Whether claims 1-31 are unpatentable under 35 U.S.C. § 102(e) as being "unpatentable over" (sic, anticipated by) U.S. Patent No. 6,421,653, and are properly rejected on that basis.

#### **ARGUMENT**

# The Rejection of Claims 1-31 Under 35 U.S.C. § 101 Is Improper

The rejection of claims 1-31 under 35 U.S.C. § 101 as allegedly being directed to non-statutory subject matter is improper and should be reversed. Initially, it is believed that the Examiner intended to indicate claims 1-19, 30 and 31 as being the subject of this ground of rejection as stated in the first Office action, inasmuch as claims 20-29 are directed to a computerized system that is undisputedly directed to statutory subject matter. In this regard, a typographical error in claim 20 as presented in the amendment filed December 16, 2003 was corrected in the Amendment After Final filed August 12, 2004. The Advisory action failed to indicate whether or not the proposed amendment would be entered upon appeal and failed to indicate whether such amendment would remove the § 101 rejection against claims 20-29. The Examiner is requested to clarify these points in any Examiner's Answer.

The Examiner states that for a claim to be statutory under 35 U.S.C. § 101, the practical application of an idea or algorithm causes a useful, concrete, tangible result, and the claim provides a limitation in the technological art that enables a useful, concrete, tangible result. According to the Examiner, claims 1-31 are not statutory "because these claims do not recite the use of technological art." First Office action at 3. As support, the final Office action cites to "MPEP Section iV 2(b)," which applicant assumes to be referring to MPEP § 2106 (IV)(B)(2)(b)(ii). However, the MPEP section relied upon does not stand for the proposition expressed in the first Office action that a claimed process which may be performed manually without the use of an electronic communication medium does not

involve the "technological arts."

As the MPEP states, "a claim is limited to a practical application when the method, as claimed, produces a concrete, tangible and useful result; <u>i.e.</u>, the method recites a step or act of producing something that is concrete, tangible and useful. There is no requirement under United States patent law that a process must be carried out using an electronic medium as alleged by the Examiner. Neither <u>In re Waldbaum</u>, <u>In re Musgrave</u>, <u>In re Johnston</u>, nor <u>In re Toma</u>, relied on by the Examiner in the final rejection, stands for such proposition.

The term technological means "pertaining to or involving technology;" and the term technology means "the application of science, especially to industrial or commercial objectives." Clearly, the "technological arts" is not limited to use of electronic media. To the contrary, the courts have used the term "technological arts" to distinguish over the "theoretical arts" – such as manipulations of abstract ideas or performance of purely mathematical algorithms. The term "technological arts" does not distinguish processes performed on a computer from processes that may be performed manually. Consequently, even if the Examiner were correct that the steps of claims 1-19, 30 and 31 could be performed manually, they would not be non-statutory as a matter of law. Claims 1-19, 30 and 31 are directed to methods for conducting auctions of financial securities. The result of the claimed methods is that trade orders are executed, and shares of financial securities are exchanged between buyers and sellers, clearly a useful, concrete and tangible result. As such, it is of no consequence whether all, part or none of the steps of the method are carried out on a computer because the method itself produces a concrete, tangible and useful result.

See State Street Bank & Trust Co. v. Signature Fin. Group, Inc., 149 F.3d 1368, 1372-75 (Fed. Cir. 1998).

# The Rejection of Claims 1-31 Under 35 U.S.C. § 102 Is Improper

The rejection of claims 1-31 under 35 U.S.C. § 102(e) as being "unpatentable over" (sic, anticipated by) U.S. Patent No. 6,421,653 to May is improper and should be reversed. May is directed to an internet-based trading system, which enables traders to identify bids and offers that they are eligible to trade based on a color coding scheme. The color coding system considers the credit rating of the potential counterparties to the trade, and is intended to be used with trading financial instruments for which the credit rating of parties is an important factor. See the Abstract. May explicitly states that auto-matching of orders is not performed, see col. 33, ll. 31-34, and thus the individual traders necessarily would be the entities matching orders and selecting prices, contrary to the requirements of the claimed invention.

The present invention as claimed is directed to batch auctions that can be conducted during opening and closing of continuous financial markets for a security, and additionally can be carried out throughout the trading day, which achieves a price discovery that reflects true market forces while eliminating the gaming that is prevalent in the prior art auction processes. According to the invention, participants in the batch auction are provided with current order information entered into the order book during the acceptance period, such as an indicated price and trade order imbalance. In return, participants are allowed to enter new orders and/or modify previous orders only if they satisfy a set of predetermined criteria,

as fully explained with reference to Fig. 2 of the application. Consequently, the opportunity for gaming is substantially reduced or eliminated, while allowing participants to place orders based on a fuller understanding of true market conditions. May does not teach any methodology for accepting new or modified orders during an order acceptance period, where selected information regarding orders is transmitted to auction participants during the order acceptance period. May further does not disclose any process for calculating an optimal price at which a maximum number of shares will be traded upon execution of a batch auction. May simply describes the best bid and best ask as the best price. Each bid or offer is color coded to take into consideration credit preferences, etc. May fails to disclose or suggest a method or system for conducting a batch auction of a financial security as disclosed and claimed in the present invention.

The final Office action cites to col. 43, II. 43-67 of May as allegedly disclosing a methodology for accepting new or modified orders during an order acceptance period. However, the cited passage merely describes the operation of an auction mechanism whereby an auction price is calculated to maximize the volume traded. May does not disclose continuously sending to participants information regarding orders as they are received during an order acceptance period and allowing the participants to modify previously submitted orders only if the modification meets a predetermined set of conditions, as set forth in claim 1, and also similarly set forth in independent claims 20, 30 and 31.

### **CONCLUSION**

In view of the foregoing, claims 1-31 are submitted to be directed to a new and unobvious method for conducting financial batch auctions among a plurality of participants that is not taught or suggested by the prior art, and that defines a statutory category of patentable invention. The Honorable Board is respectfully requested to reverse all grounds of rejection and to direct the passage of this application to issue.

Please charge any fee or credit any overpayment pursuant to 37 CFR 1.16 or 1.17 to Deposit Account No. 02-2135.

Respectfully submitted,

ROTHWELL, FIGG, ERNST & MANBECK, p.c.

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